

Appendix H. Delineation Data Forms and Atypical Forms

H1. Equine Site

H1a. Approved Jurisdictional Determination Form

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: New York County/parish/borough: Orange City: Middletown
Center coordinates of site (lat/long in degree decimal format): Lat. 41.4634° **N**, Long. 74.3164° **W**.
Universal Transverse Mercator:

Name of nearest waterbody: Wallkill River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Wallkill River

Name of watershed or Hydrologic Unit Code (HUC): 0202000070402

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: Sept. - Oct. 2022

Field Determination. Date(s): Sept. 2021; March, June, and Sept. 2022

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

TNWs, including territorial seas

Wetlands adjacent to TNWs

Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs

Non-RPWs that flow directly or indirectly into TNWs

Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs

Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: 976 linear feet: 6 width (ft) and/or acres.

Wetlands: 3.77 acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain: .

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”:

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 0.94 square miles

Drainage area: 0.35 square miles

Average annual rainfall: 47.18 inches

Average annual snowfall: 42.6 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW⁵: Equine Tributary to Wallkill River (TNW).

Tributary stream order, if known: 1st.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain: .
 Manipulated (man-altered). Explain: Channelization.

Tributary properties with respect to top of bank (estimate):

Average width: 6 feet
Average depth: 3.0 feet
Average side slopes: **2:1**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover:
 Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Moderately stable but relocated in areas.

Presence of run/riffle/pool complexes. Explain: Present at an expected frequency.

Tributary geometry: **Relatively straight**

Tributary gradient (approximate average slope): 0.5 %

(c) Flow:

Tributary provides for: **Seasonal flow**

Estimate average number of flow events in review area/year: **20 (or greater)**

Describe flow regime: Perennial.

Other information on duration and volume: 0.21 cfs median annual flow (StreamStats).

Surface flow is: **Discrete and confined**. Characteristics: .

Subsurface flow: **Yes**. Explain findings: .

Dye (or other) test performed: .

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: Water color is clear; forested and agricultural areas within watershed.

Identify specific pollutants, if known: Identified groundwater contamination within unauthorized fill adjacent to tributary.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

Riparian corridor. Characteristics (type, average width): Right valley cleared with emergent vegetation; left valley forested.

Wetland fringe. Characteristics:

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: 3.77 acres

Wetland type. Explain: Emergent.

Wetland quality. Explain: Secondary successional habitat present prior to current land disturbance.

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: **Perennial flow**. Explain:

Surface flow is: **Discrete and confined**

Characteristics:

Subsurface flow: **Yes**. Explain findings: Observations and topographic gradient indicates subsurface flow.

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain: Habitats are connected and in close proximity to facilitate ecological exchange and movement.

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Clear water, upstream watershed includes forested and agricultural lands.

Identify specific pollutants, if known:

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

Riparian buffer. Characteristics (type, average width): Mosaic of forested and agricultural lands.

Vegetation type/percent cover. Explain: Mixutre of emergent and scrub/shrub.

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **2**

Approximately (3.77) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
Equine Wetlands (Y)	3.77		

Summarize overall biological, chemical and physical functions being performed: Biogeochemical processing, compound sequestration, sediment retention, surface and subsurface flow storage and conveyance, flow attenuation, and floral and faunal habitat support.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**
 Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Observations of hydrology and biological monitoring support year-round flow regime.
 Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: 976 linear feet 6 width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters: .

3. **Non-RPWs⁸ that flow directly or indirectly into TNWs.**

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **See Figure 5.6.3.2.1.**

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: 3.77 acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

Demonstrate that impoundment was created from "waters of the U.S.," or

Demonstrate that water meets the criteria for one of the categories presented above (1-6), or

Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰**

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

Interstate isolated waters. Explain: .

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: 976 linear feet 6 width (ft).
- Other non-wetland waters: . acres.
Identify type(s) of waters: .
- Wetlands: 3.77 acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): . linear feet . width (ft).
- Lakes/ponds: . acres.
- Other non-wetland waters: . acres. List type of aquatic resource: .
- Wetlands: . acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): . linear feet, . width (ft).
- Lakes/ponds: . acres.
- Other non-wetland waters: . acres. List type of aquatic resource: .
- Wetlands: . acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: See Appendix C of Expert Report.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters' study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Goshen, NY.
- USDA Natural Resources Conservation Service Soil Survey. Citation: Olsson, K., 1981.
- National wetlands inventory map(s). Cite name: see Figure 2.2.5 in Expert Report.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: 36072C0279E, Panel 27.
- 100-year Floodplain Elevation is: . (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): See Appendix C of Expert Report.
or Other (Name & Date): See Appendix C and J of Expert Report.
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

H1b. Equine Atypical Situation Forms

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ01	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ02	DATE: 3.17.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ03	DATE: 3.17.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ04	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ05	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ06	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ07	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ08	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ09	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ10-2	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.
2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.
3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.
4. Hydrophytic Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile
2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes
3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam
4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.
2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.
3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.
4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ10	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ11	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-EQ12	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ca, Canandaigua silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

H1c. Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.14.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ01
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46357 Long: -74.31506 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: PFO1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.	

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ01

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	35	Yes	UPL
2.	<u>Dactylis glomerata</u>	25	Yes	FACU
3.	<u>Lotus corniculatus</u>	15	No	FACU
4.	<u>Phalaris arundinacea</u>	5	No	FACW
5.	<u>Lolium perenne</u>	5	No	FACU
6.	<u>Phragmites australis</u>	5	No	FACW
7.	<u>Symphytichum lateriflorum</u>	2	No	FAC
8.	<u>Euthamia graminifolia</u>	2	No	FAC
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	94 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>4</u>	x 3 = <u>12</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>35</u>	x 5 = <u>175</u>
Column Totals: <u>94</u> (A)	<u>387</u> (B)
Prevalence Index = B/A = <u>4.12</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, no tree, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown/gray grCL common gravel
60-120								Fill; Gravel, smooth stone, gray clay loam woody debris from 84-120, black and gray
120-180								gray grCL to black, common organic debris few brick
180-204								Gravel size debris including brick
204-240								gray pebble and gravel

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No x _____

Remarks:
Metal wire 72-84". 204-240" corresponds to potential stream bottom.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.17.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ02
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.463378 Long: -74.314539 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ02

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Dactylis glomerata</u>	65	Yes	FACU
2.	<u>Galium mollugo</u>	10	No	FACU
3.	<u>Dipsacus fullonum</u>	5	No	FACU
4.	<u>Artemisia vulgaris</u>	5	No	UPL
5.	<u>Lolium perenne</u>	3	No	FACU
6.	<u>Taraxacum officinale</u>	2	No	FACU
7.	<u>Rumex crispus</u>	2	No	FAC
8.	<u>Symphotrichum lateriflorum</u>	2	No	FAC
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	94 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>4</u>	x 3 = <u>12</u>
FACU species <u>85</u>	x 4 = <u>340</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>94</u> (A)	<u>377</u> (B)
Prevalence Index = B/A = <u>4.01</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown grCL, crushed asphalt
60-96								Fill; black grCL common smooth rock few brick, common fine rocks
96-100	10YR 2/1	100					Loamy/Clayey	Many medium roots
100-120	10Y 4/1	65	10YR 4/4	35	C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No x

Remarks:

Meets Loamy Gleyed Matrix (F2) below fill materail (96-120"). Clay loam texture (96-100") clay texture (100-120").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.17.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ03
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.463102 Long: -74.313945 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.	

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ03

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	55	Yes	UPL
2.	<u>Galium mollugo</u>	15	No	FACU
3.	<u>Solidago canadensis</u>	15	No	FACU
4.	<u>Pycnanthemum tenuifolium</u>	5	No	FAC
5.	<u>Dactylis glomerata</u>	5	No	FACU
6.	<u>Phragmites australis</u>	3	No	FACW
7.	<u>Euthamia graminifolia</u>	2	No	FAC
8.	<u>Agrostis capillaris</u>	2	No	FAC
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	102 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>3</u>	x 2 = <u>6</u>
FAC species <u>9</u>	x 3 = <u>27</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>102</u> (A)	<u>448</u> (B)
Prevalence Index = B/A = <u>4.39</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown and gray clay loam few woody debris, c gravel, rock, brick
60-72	2.5Y 3/1						Loamy/Clayey	many pebble-gravel size rock few rounded stones
72-77	2.5Y 2.5/1	100					Loamy/Clayey	Fibric, many roots
77-96	N 6/	80	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations
96-120	2.5Y 4/4	90	N 6/	5	D	M	Loamy/Clayey	
			10YR 5/6	5	C	M		Distinct redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No x _____

Remarks:

Meets Loamy Gleyed Matrix (F2) below fill material (72-120"). Fine sandy loam texture (72-77") Clay texture (77-120").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ04
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Riverbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.463161 Long: -74.314838 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ04

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Dactylis glomerata</u>	25	Yes	FACU
2.	<u>Artemisia vulgaris</u>	20	Yes	UPL
3.	<u>Phalaris arundinacea</u>	15	Yes	FACW
4.	<u>Galium mollugo</u>	15	Yes	FACU
5.	<u>Euthamia graminifolia</u>	5	No	FAC
6.	<u>Schedonorus pratensis</u>	5	No	FACU
7.	<u>Agrostis capillaris</u>	3	No	FAC
8.	<u>Lolium perenne</u>	3	No	FACU
9.	<u>Solidago canadensis</u>	3	No	FACU
10.	<u>Cichorium intybus</u>	2	No	FACU
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	96 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>15</u>	x 2 = <u>30</u>
FAC species <u>8</u>	x 3 = <u>24</u>
FACU species <u>53</u>	x 4 = <u>212</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>96</u> (A)	<u>366</u> (B)
Prevalence Index = B/A = <u>3.81</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; Mixed gray & black CL, crushed brick
60-84								Fill; Crushed rock, brick and gray grCL
84-108								Fill; Black crushed rock, few organic debris
108-132								Fill; Mixed gray clay
132-138	2.5Y 2.5/1						Loamy/Clayey	Many roots
138-156	N 5/	75	10YR 5/6	25	C	M	Loamy/Clayey	Prominent redox concentrations
156-180	N 5/	50	2.5Y 4/4	50	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No x _____

Remarks:

Meets Loamy Gleyed Matrix (F2) below fill material (132-180"). Clay loam texture (132-138") Clay texture (138-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ05
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462977 Long: -74.31442 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ05

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	35	Yes	UPL
2.	<u>Symphotrichum lateriflorum</u>	15	Yes	FAC
3.	<u>Solidago canadensis</u>	10	Yes	FACU
4.	<u>Phleum pratense</u>	10	Yes	FACU
5.	<u>Juncus effusus</u>	8	No	OBL
6.	<u>Dactylis glomerata</u>	5	No	FACU
7.	<u>Pycnanthemum tenuifolium</u>	5	No	FAC
8.	<u>Galium mollugo</u>	5	No	FACU
9.	<u>Lotus corniculatus</u>	5	No	FACU
10.	<u>Lythrum salicaria</u>	2	No	OBL
11.	<u>Euthamia graminifolia</u>	2	No	FAC
12.	_____	_____	_____	_____
	102 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>25.0%</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>10</u>	x 1 = <u>10</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>22</u>	x 3 = <u>66</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>35</u>	x 5 = <u>175</u>
Column Totals: <u>102</u> (A)	<u>391</u> (B)
Prevalence Index = B/A = <u>3.83</u>	
Hydrophytic Vegetation Indicators:	
<u>1</u> - Rapid Test for Hydrophytic Vegetation	
<u>2</u> - Dominance Test is >50%	
<u>3</u> - Prevalence Index is ≤3.0 ¹	
<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata:	
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines – All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes <u> </u> No <u> </u> x	

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-78								Fill; Mixed brown/gray over crushed brick
78-84	10YR 2/1	100					Loamy/Clayey	Many fine roots (fibric)
84-96	2.5Y 2.5/1	100					Loamy/Clayey	Few roots
96-120	N 6/	80	10YR 5/6	20	C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>x</u> _____
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Remarks:
 Meets Thick Dark Surface (A12) below fill material (78-84"). Fine sandy loam texture (78-84") clay loam texture (84-96") Clay texture (96-120").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ06
 Investigator(s): S. Dockery & L. Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462824 Long: -74.314112 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ06

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	45	Yes	UPL
2.	<u>Lotus corniculatus</u>	20	Yes	FACU
3.	<u>Agrostis capillaris</u>	10	No	FAC
4.	<u>Solidago canadensis</u>	10	No	FACU
5.	<u>Symphotrichum lateriflorum</u>	5	No	FAC
6.	<u>Dactylis glomerata</u>	5	No	FACU
7.	<u>Pycnanthemum tenuifolium</u>	2	No	FAC
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	97 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>17</u>	x 3 = <u>51</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>45</u>	x 5 = <u>225</u>
Column Totals: <u>97</u> (A)	<u>416</u> (B)
Prevalence Index = B/A = <u>4.29</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ06

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-68								Fill; mixed brown & gray grCL many gravel, asphalt, rocky debris
68-71	2.5Y 2.5/1	100					Loamy/Clayey	fibric, many roots
71-76	2.5Y 3/1	100					Loamy/Clayey	common roots
76-109	N 6/	60	10YR 5/6	40	C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No x

Remarks:

Meets Loamy Gleyed Matrix (F2) below fill materail (68-109"). Very fine sandy loam texture (68-71") Clay loam texture (71-76") clay texture (76-109").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ07
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462882 Long: -74.314966 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: PFO1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.	

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ07

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	35	Yes	UPL
2.	<u>Symphyotrichum lateriflorum</u>	15	Yes	FAC
3.	<u>Lotus corniculatus</u>	15	Yes	FACU
4.	<u>Dactylis glomerata</u>	15	Yes	FACU
5.	<u>Solidago canadensis</u>	10	No	FACU
6.	<u>Schedonorus pratensis</u>	5	No	FACU
7.	<u>Agrostis capillaris</u>	5	No	FAC
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	100 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>35</u>	x 5 = <u>175</u>
Column Totals: <u>100</u> (A)	<u>415</u> (B)
Prevalence Index = B/A = <u>4.15</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brick, rock and asphalt
60-120								Fill; mixed black and gray CL, rock 8-10'
120-122	10YR 2/1	100					Loamy/Clayey	Organic (fibric)
122-144	2.5Y 3/1	100					Loamy/Clayey	few fine roots
144-180	10Y 5/1	80	10YR 5/6	20	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No x

Remarks:
 Fine sandy loam texture (120-122") Clay loam texture (122-144") Clay texture (144-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ08
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462706 Long: -74.31461 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ08

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Dactylis glomerata</u>	30	Yes	FACU
2.	<u>Symphotrichum lateriflorum</u>	15	Yes	FAC
3.	<u>Artemisia vulgaris</u>	10	Yes	UPL
4.	<u>Solidago canadensis</u>	10	Yes	FACU
5.	<u>Galium mollugo</u>	8	No	FACU
6.	<u>Phleum pratense</u>	5	No	FACU
7.	<u>Lolium perenne</u>	5	No	FACU
8.	<u>Lotus corniculatus</u>	5	No	FACU
9.	<u>Pycnanthemum tenuifolium</u>	3	No	FAC
10.	<u>Achillea millefolium</u>	3	No	FACU
11.	<u>Penstemon digitalis</u>	2	No	FAC
12.	_____	_____	_____	_____
	96 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>4</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)</p> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:20%; text-align:center;">Total % Cover of:</th> <th style="width:20%; text-align:center;">Multiply by:</th> <th style="width:20%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:center;">x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:center;">x 2 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>20</u></td> <td style="text-align:center;">x 3 =</td> <td style="text-align:center;"><u>60</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;"><u>66</u></td> <td style="text-align:center;">x 4 =</td> <td style="text-align:center;"><u>264</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;"><u>10</u></td> <td style="text-align:center;">x 5 =</td> <td style="text-align:center;"><u>50</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>96</u> (A)</td> <td></td> <td style="text-align:center;"><u>374</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:right;">Prevalence Index = B/A =</td> <td></td> <td style="text-align:center;"><u>3.90</u></td> </tr> </tbody> </table> <p>Hydrophytic Vegetation Indicators:</p> <p><u>1</u> - Rapid Test for Hydrophytic Vegetation</p> <p><u>2</u> - Dominance Test is >50%</p> <p><u>3</u> - Prevalence Index is ≤3.0¹</p> <p><u>4</u> - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p><u> </u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Definitions of Vegetation Strata:</p> <p>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vines – All woody vines greater than 3.28 ft in height.</p> <p>Hydrophytic Vegetation Present? Yes <u> </u> No <u> </u> x</p>		Total % Cover of:	Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>20</u>	x 3 =	<u>60</u>	FACU species	<u>66</u>	x 4 =	<u>264</u>	UPL species	<u>10</u>	x 5 =	<u>50</u>	Column Totals:	<u>96</u> (A)		<u>374</u> (B)	Prevalence Index = B/A =			<u>3.90</u>	
	Total % Cover of:	Multiply by:																															
OBL species	<u>0</u>	x 1 =	<u>0</u>																														
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UPL species	<u>10</u>	x 5 =	<u>50</u>																														
Column Totals:	<u>96</u> (A)		<u>374</u> (B)																														
Prevalence Index = B/A =			<u>3.90</u>																														

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed gray/brown CL over crushed rock
60-120								Fill; common brick, rock, asphalt
120-124	2.5Y 2.5/1	100					Loamy/Clayey	Many roots & organic debris
124-132	2.5Y 3/1	100					Loamy/Clayey	
132-138	10Y 3/1	92	10YR 3/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
			5G 5/1	3	D	M		
138-166	N 5/	50	2.5Y 4/4	50	C	M	Loamy/Clayey	Prominent redox concentrations
166-168								gray gravel
168-180	N 4/	60	2.5Y 4/4	40	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No x _____

Remarks:

Clay loam texture (120-138") Clay texture (138-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ09
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46259 Long: -74.31439 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ09

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	65	Yes	UPL
2.	<u>Solidago canadensis</u>	10	No	FACU
3.	<u>Daucus carota</u>	5	No	UPL
4.	<u>Symphotrichum lateriflorum</u>	5	No	FAC
5.	<u>Lotus corniculatus</u>	5	No	FACU
6.	<u>Pycnanthemum tenuifolium</u>	5	No	FAC
7.	<u>Plantago lanceolata</u>	3	No	FACU
8.	<u>Euthamia graminifolia</u>	3	No	FAC
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	101 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>13</u>	x 3 = <u>39</u>
FACU species <u>18</u>	x 4 = <u>72</u>
UPL species <u>70</u>	x 5 = <u>350</u>
Column Totals: <u>101</u> (A)	<u>461</u> (B)
Prevalence Index = B/A = <u>4.56</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: B-EQ09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown & gray grCL
								Asphalt, gravel
60-120								Fill; Rock, 0.5' recovery
120-180								Fill; Crushed rock & gravel
180-182	2.5Y 3/1	100					Loamy/Clayey	few fine roots
182-204	2.5Y 4/3	100					Loamy/Clayey	many fine pebbles
204-220	2.5Y 3/1	80	2.5Y 4/4	20	C	M	Loamy/Clayey	Distinct redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
Clay loam texture (180-182") coarse sandy loam texture (182-204") clay texture 204-220").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ10
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462464 Long: -74.314973 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: R5UBH

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ10

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1.	<u><i>Symphytichum lateriflorum</i></u>	25	Yes	FAC
2.	<u><i>Artemisia vulgaris</i></u>	20	Yes	UPL
3.	<u><i>Solidago canadensis</i></u>	15	Yes	FACU
4.	<u><i>Dactylis glomerata</i></u>	15	Yes	FACU
5.	<u><i>Lotus corniculatus</i></u>	8	No	FACU
6.	<u><i>Ambrosia artemisiifolia</i></u>	5	No	FACU
7.	<u><i>Euthamia graminifolia</i></u>	5	No	FAC
8.	<u><i>Trifolium pratense</i></u>	2	No	FACU
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	95	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>95</u> (A)	<u>370</u> (B)
Prevalence Index = B/A = <u>3.89</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ10-2
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462464 Long: -74.314973 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: R5UBH

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Location offset 3' from B-EQ10 due to no recovery of material from 10-15'	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.	

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ10-2

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1.	<u><i>Symphytichum lateriflorum</i></u>	25	Yes	FAC
2.	<u><i>Artemisia vulgaris</i></u>	20	Yes	UPL
3.	<u><i>Solidago canadensis</i></u>	15	Yes	FACU
4.	<u><i>Dactylis glomerata</i></u>	15	Yes	FACU
5.	<u><i>Lotus corniculatus</i></u>	8	No	FACU
6.	<u><i>Ambrosia artemisiifolia</i></u>	5	No	FACU
7.	<u><i>Euthamia graminifolia</i></u>	5	No	FAC
8.	<u><i>Trifolium pratense</i></u>	2	No	FACU
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	95	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>95</u> (A)	<u>370</u> (B)
Prevalence Index = B/A = <u>3.89</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ10-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown/gray grCL and woody debris rock fragments at 54-60"
60-120								Mixed brown/gray grCL rock fragments
120-138	2.5Y 3/1	95	10YR 5/6	5	C	M	Loamy/Clayey	Few roots. Few smooth stones
138-180	2.5Y 2.5/1	90	N 3/	10	D	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> x </u>
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Remarks:
 Meets Redox Dark Surface (F6) below fill material (120-138"). Gravelly clay loam texture (120-138") Clay loam texture (138-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ11
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462274 Long: -74.314664 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ11

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	85	Yes	UPL
2.	<u>Agrostis capillaris</u>	5	No	FAC
3.	<u>Solidago canadensis</u>	2	No	FACU
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	92 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>2</u>	x 4 = <u>8</u>
UPL species <u>85</u>	x 5 = <u>425</u>
Column Totals: <u>92</u> (A)	<u>448</u> (B)
Prevalence Index = B/A = <u>4.87</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed brown/gray, many rocks, brick Concrete. Few smooth stones at 60"
60-132								mixed dark gray and black coarse CL common gravel, concrete at 120"
132-137	2.5Y 2.5/1	100					Loamy/Clayey	Many fine roots, fibric
137-151	2.5Y 4/1	85	10YR 5/6	15	C	M	Loamy/Clayey	Prominent redox concentrations
151-174	2.5Y 4/4	100					Loamy/Clayey	
174-180	2.5Y 3/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> Marl (F10) (LRR K, L) |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) | |

Indicators for Problematic Hydric Soils³:

- | |
|--|
| <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No x _____

Remarks:

Meets Depleted Matrix (F3) below fill material (132-151"). Loam texture (132-137") Clay loam 137-174"). Clay texture (174-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 3.16.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ12
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462084 Long: -74.314821 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ12

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Artemisia vulgaris</u>	55	Yes	UPL
2.	<u>Solidago canadensis</u>	15	No	FACU
3.	<u>Symphotrichum lateriflorum</u>	8	No	FAC
4.	<u>Dactylis glomerata</u>	5	No	FACU
5.	<u>Phleum pratense</u>	5	No	FACU
6.	<u>Lotus corniculatus</u>	5	No	FACU
7.	<u>Euthamia graminifolia</u>	2	No	FAC
8.	<u>Pycnanthemum tenuifolium</u>	2	No	FAC
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	97 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>12</u>	x 3 = <u>36</u>
FACU species <u>30</u>	x 4 = <u>120</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>97</u> (A)	<u>431</u> (B)
Prevalence Index = B/A = <u>4.44</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No x

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

SOIL

Sampling Point: B-EQ12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Mixed brown/gray grCL, brick, rock, asphalt
60-132								Crushed asphalt, brick, gravel
132-134	2.5Y 2.5/1	100					Loamy/Clayey	Many roots
134-139	2.5Y 4/1	90	10YR 4/6	10	C	M	Loamy/Clayey	
139-180	N 4/	90	2.5Y 4/4	10	C	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> x </u>
---	--

Remarks:
 Meets Loamy Gleyed Matrix (F2) and Depleted Matrix (F3) below fill material (132-180"). Silty clay loam texture (132-134") Clay loam texture (134-139") Clay texture (139-180").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 9.27.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ101
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46387 Long: -74.31458 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Adjacent to channelized stream (flowing)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) <u>x</u> High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) <u>x</u> Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) <u>x</u> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <u>x</u> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
---	--

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes <u>x</u> No _____ Depth (inches): <u>11</u> Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ101

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	<u>Quercus palustris</u>	15	Yes	FACW
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1.	<u>Typha latifolia</u>	65	Yes	OBL
2.	<u>Solidago canadensis</u>	10	No	FACU
3.	<u>Lythrum salicaria</u>	10	No	OBL
4.	<u>Phalaris arundinacea</u>	5	No	FACW
5.	<u>Symphotrichum novae-angliae</u>	3	No	FACW
6.	<u>Eupatorium perfoliatum</u>	2	No	FACW
7.	<u>Euthamia graminifolia</u>	2	No	FAC
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	_____	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>75</u>	x 1 = <u>75</u>
FACW species <u>25</u>	x 2 = <u>50</u>
FAC species <u>2</u>	x 3 = <u>6</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>112</u> (A)	<u>171</u> (B)
Prevalence Index = B/A = <u>1.53</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 9.27.22
 Applicant/Owner: _____ State: NY Sampling Point: B-EQ102
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46362 Long: -47.31418 Datum: NAD83
 Soil Map Unit Name: Ca, Canandaigua silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Adjacent to channelized stream (flowing); Thick ground cover vegetation made it difficult to discern hydrology indicators seen elsewhere in wetland (e.g. drainage patterns)

VEGETATION – Use scientific names of plants.

Sampling Point: B-EQ102

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
1.	_____	_____	_____																	
2.	_____	_____	_____																	
3.	_____	_____	_____																	
4.	_____	_____	_____																	
5.	_____	_____	_____																	
6.	_____	_____	_____																	
_____ =Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>50</u></td> <td>x 1 = <u>50</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>175</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>1.67</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>50</u>	x 1 = <u>50</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>105</u> (A)	<u>175</u> (B)	Prevalence Index = B/A = <u>1.67</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>50</u>	x 1 = <u>50</u>																			
FACW species <u>45</u>	x 2 = <u>90</u>																			
FAC species <u>5</u>	x 3 = <u>15</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>105</u> (A)	<u>175</u> (B)																			
Prevalence Index = B/A = <u>1.67</u>																				
1.	<u>Platanus occidentalis</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																
2.	_____	_____	_____	_____																
3.	_____	_____	_____	_____																
4.	_____	_____	_____	_____																
5.	_____	_____	_____	_____																
6.	_____	_____	_____	_____																
7.	_____	_____	_____	_____																
_____ =Total Cover																				
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	<u>Lythrum salicaria</u>	<u>40</u>	<u>Yes</u>		<u>OBL</u>															
2.	<u>Phalaris arundinacea</u>	<u>30</u>	<u>Yes</u>		<u>FACW</u>															
3.	<u>Typha latifolia</u>	<u>10</u>	<u>No</u>		<u>OBL</u>															
4.	<u>Phragmites australis</u>	<u>5</u>	<u>No</u>		<u>FACW</u>															
5.	<u>Solidago canadensis</u>	<u>5</u>	<u>No</u>		<u>FACU</u>															
6.	<u>Persicaria longiseta</u>	<u>5</u>	<u>No</u>		<u>FAC</u>															
7.	<u>Vernonia noveboracensis</u>	<u>5</u>	<u>No</u>		<u>FACW</u>															
8.	_____	_____	_____		_____															
9.	_____	_____	_____		_____															
10.	_____	_____	_____		_____															
11.	_____	_____	_____		_____															
12.	_____	_____	_____	_____																
_____ =Total Cover																				
Woody Vine Stratum (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1.	_____	_____	_____		_____															
2.	_____	_____	_____		_____															
3.	_____	_____	_____		_____															
_____ =Total Cover																				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____																				

Remarks: (Include photo numbers here or on a separate sheet.)

H2. MFTC

H2a. Approved Jurisdictional Determination Form

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: New York County/parish/borough: Orange City: Middletown
Center coordinates of site (lat/long in degree decimal format): Lat. 41.4636° **N**, Long. 74.3294° **W**.
Universal Transverse Mercator:

Name of nearest waterbody: Wallkill River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Wallkill River

Name of watershed or Hydrologic Unit Code (HUC): 0202000070402

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: Sept. - Oct. 2022

Field Determination. Date(s): Sept. 2021; March, June, and Sept. 2022

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

TNWs, including territorial seas

Wetlands adjacent to TNWs

Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs

Non-RPWs that flow directly or indirectly into TNWs

Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs

Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: 2,655 linear feet: 22 width (ft) and/or 1.48 acres.

Wetlands: 24.69 acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain: .

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: _____ .

Summarize rationale supporting determination: _____ .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”?: _____ .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 9.17 square miles

Drainage area: 8.46 square miles

Average annual rainfall: 47.18 inches

Average annual snowfall: 42.6 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: _____ .

Identify flow route to TNW⁵: Crystal Run to Wallkill River (TNW).

Tributary stream order, if known: 3rd.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain: .
 Manipulated (man-altered). Explain: Channelization.

Tributary properties with respect to top of bank (estimate):

Average width: 22 feet
Average depth: 1.0 feet
Average side slopes: **2:1**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover:
 Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Moderately stable but relocated in areas.

Presence of run/riffle/pool complexes. Explain: Present at an expected frequency.

Tributary geometry: **Relatively straight**

Tributary gradient (approximate average slope): 0.5 %

(c) Flow:

Tributary provides for: **Seasonal flow**

Estimate average number of flow events in review area/year: **20 (or greater)**

Describe flow regime: Perennial.

Other information on duration and volume: 4.93 cfs median annual flow (StreamStats).

Surface flow is: **Discrete and confined**. Characteristics: .

Subsurface flow: **Yes**. Explain findings: .

Dye (or other) test performed: .

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: Water color is clear, some evidence of nutrient enrichment in the form of algal and periphyton growth on submerged rocks.

Identify specific pollutants, if known: Pollutant runoff from adjacent horse stables, pastures, and parking lots.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): Cleared, emergent vegetation.
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: 24.69 acres

Wetland type. Explain: Riverine and slope wetlands.

Wetland quality. Explain: Secondary successional habitat present prior to current land disturbance.

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: **Perennial flow**. Explain: At least seasonal flow measured at two surface water stilling wells.

Surface flow is: **Discrete and confined**

Characteristics: Historical and existing flow pathways observed and monitored.

Subsurface flow: **Yes**. Explain findings: Observations and topographic gradient indicates subsurface flow.

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain: Surficial hydrologic connection gaged and observed in historical aerial imagery.

Ecological connection. Explain: Habitats are connected and in close proximity to facilitate ecological exchange and movement.

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **1 (or less)** river miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

- Riparian buffer. Characteristics (type, average width): Mosaic of secondary successional and agricultural lands.
- Vegetation type/percent cover. Explain: Scrub/shrub and emergent wetlands.
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **4**

Approximately (24.69) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
Area A wetlands (Y)		Area D wetlands (Y)	
Area B wetlands (Y)			
Area C wetlands (Y)			

Summarize overall biological, chemical and physical functions being performed: Biogeochemical processing, compound sequestration, sediment retention, surface and subsurface flow storage and conveyance, flow attenuation, and floral and faunal habitat support.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**
 Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Appendix D of Expert Report, hydrology and biological monitoring support year-round flow regime.
 Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: **2,655** linear feet **22** width (ft).
- Other non-wetland waters: **1.48** acres.

Identify type(s) of waters: **Pond**.

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.

Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **See Figure 5.6.2.1.1 of Expert Report**.
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: **24.69** acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain: .

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.**

Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: 2,655 linear feet 22 width (ft).

Other non-wetland waters: 1.48 acres.

Identify type(s) of waters: Pond.

Wetlands: 24.69 acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .

Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource: .

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource: .

Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: See Appendix C of Expert Report.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps: .

Corps navigable waters' study: .

U.S. Geological Survey Hydrologic Atlas: .

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Goshen, NY.

USDA Natural Resources Conservation Service Soil Survey. Citation: .

National wetlands inventory map(s). Cite name: see Figure 2.2.5 in Expert Report.

State/Local wetland inventory map(s): .

FEMA/FIRM maps: 36072C0279E, Panel 279.

100-year Floodplain Elevation is: 371.1 (National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): See Appendix C of Expert Report.

or Other (Name & Date): See Appendix C and J of Expert Report.

Previous determination(s). File no. and date of response letter: 94-02240-YS June 30, 1995.

Applicable/supporting case law: .

Applicable/supporting scientific literature: .

Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

H2b. Atypical Situation Forms

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME:
LOCATION:	PLOT NUMBER:	DATE:

A. VEGETATION:

1. Type of Alteration: _____

2. Effect on Vegetation: _____

3. Previous Vegetation:
(Attach documentation) _____

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) _____

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: _____

2. Effect on hydrology: _____

3. Previous Hydrology:
(Attach documentation) _____

4. Wetland Hydrology? Yes No

Characterized By: _____

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR02	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR04	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR04b	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR09	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ab, Alden silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR11	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ab, Alden silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR12	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR14	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading.
-
2. Effect on Vegetation: Previous vegetation disturbed by land clearing.
-
3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.
-
4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Land clearing, minor grading (6" of fill)
-
2. Effect on Soils: Soils meet depleted below dark surface (A11) hydric soil indicator.
-
3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes.
-
4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading.
-
2. Effect on hydrology: A high water table (A2) and soil saturation (A3) were present at the land surface
-
3. Previous Hydrology:
(Attach documentation) _____
-
4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR15	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Mass grading.

2. Effect on Soils: Soils meet the depleted matrix (F3) hydric soil indicator.

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading.

2. Effect on hydrology: A high water table (A2) and soil saturation (A3) were present at the land surface

3. Previous Hydrology:
(Attach documentation) _____

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR19	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.
2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.
3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.
4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile
2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes
3. Previous Soils:
(Attach Documentation) Ab, Alden silt loam
4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.
2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.
3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.
4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR20	DATE: 3.12.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) Ab, Alden silt loam

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR22	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR25	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR24	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR26	DATE: 3.15.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR27	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) UF, Udifluvents-Fluvaquents complex, frequently flooded

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR28	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) UF, Udifluvents-Fluvaquents complex, frequently flooded

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR29	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) UF, Udifluvents-Fluvaquents complex, frequently flooded

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR31	DATE: 3.14.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) UF, Udifluvents-Fluvaquents complex, frequently flooded

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR30	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) UF, Udifluvents-Fluvaquents complex, frequently flooded

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR32	DATE: 3.16.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR101	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR102	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErA, Erie gravelly silt loam, 0 to 3 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR103	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR104	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR105	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.
-
2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.
-
3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.
-
4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile
-
2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes
-
3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent
-
4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.
-
2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.
-
3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.
-
4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR107	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Land clearing and mass grading

2. Effect on Soils: Soil meets depleted matrix (F3) hydric soil indicator

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading

2. Effect on hydrology: Normal hydrologic functions altered by mass grading; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR108	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Land clearing and mass grading

2. Effect on Soils: Soil meets depleted matrix (F3) hydric soil indicator

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading

2. Effect on hydrology: Normal hydrologic functions altered by mass grading; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR109	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Land clearing and mass grading

2. Effect on Soils: Soil meets depleted matrix (F3) hydric soil indicator

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading

2. Effect on hydrology: Normal hydrologic functions altered by mass grading; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR110	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Land clearing and mass grading

2. Effect on Soils: Soil meets the depleted matrix (F3) hydric soil indicator

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading

2. Effect on hydrology: Normal hydrologic functions altered by mass grading; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR106	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading

2. Effect on hydrology: Normal hydrologic functions altered by mass grading; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR111	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR112	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) ErB, Erie gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

DATA FORM 3
ATYPICAL SITUATIONS

APPLICANT NAME:	APPLICATION NUMBER:	PROJECT NAME: US vs Ford Stables
LOCATION: Orange County, New York	PLOT NUMBER: B-SR113	DATE: 9.26.22

A. VEGETATION:

1. Type of Alteration: Land clearing and mass grading, filling.

2. Effect on Vegetation: Previous vegetation disturbed by land clearing and placement of fill.

3. Previous Vegetation:
(Attach documentation) Inferences made from similarly situated reference site.

4. Hydrophytic
Vegetation? Yes No

B. SOILS:

1. Type of Alteration: Fill material consisting of excavated soil material, construction debris, and organic matter has been placed on top of the natural soil profile

2. Effect on Soils: Depth of fill adversely affects hydric soil status due to lack of hydric soil indicators at prescribed depths. Fill material adversely affects soil saturation and biological processes

3. Previous Soils:
(Attach Documentation) MdB, Mardin gravelly silt loam, 3 to 8 percent slopes

4. Hydric Soils? Yes No

C. HYDROLOGY:

1. Type of Alterations: Land clearing, mass grading, and depositions of fill.

2. Effect on hydrology: Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth.

3. Previous Hydrology:
(Attach documentation) Inferences made from similarly situated wetland reference sites.

4. Wetland Hydrology? Yes No

Characterized By: WLN, BLR, JW

H2c. Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR02
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4656 Long: -74.3325 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.14.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR04
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4661 Long: -74.3318 Datum: NAD83
 Soil Map Unit Name: MdB, Mardin gravelly silt loam, 3 to 8 percent NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.14.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR04b
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4659 Long: -74.3317 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR09
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.464435 Long: -74.32839 Datum: NAD83
 Soil Map Unit Name: Ab, Alden silt loam NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR11
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.463802 Long: -74.327459 Datum: NAD83
 Soil Map Unit Name: Ab, Alden silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>x</u>	
Wetland Hydrology Present? Yes _____ No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR14
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.463446 Long: -74.329977 Datum: NAD83
 Soil Map Unit Name: Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) <u>x</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>x</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR15
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462968 Long: -74.32978 Datum: NAD83
 Soil Map Unit Name: Mardin gravelly silt loam, 3 to 8 percent NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes <u>x</u> No _____ Wetland Hydrology Present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>x</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) <u>x</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>x</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>x</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR12
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46426 Long: -74.329226 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR19
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Riverbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462519 Long: -74.327728 Datum: NAD83
 Soil Map Unit Name: Ab, Alden silt loam NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <u>x</u>	
Wetland Hydrology Present?	Yes _____	No <u>x</u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.12.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR20
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terraced Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462168 Long: -74.327223 Datum: NAD83
 Soil Map Unit Name: Alden silt loam NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.2

Applicant/Owner: _____ State: NY Sampling Point: B-SR22

Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____

Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.461662 Long: -74.327306 Datum: NAD83

Soil Map Unit Name: MdB, Mardin gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)

Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>x</u>	
Wetland Hydrology Present? Yes _____ No <u>x</u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present? Yes _____ No <u>x</u>
Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____	
Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR24
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.461529 Long: -74.327707 Datum: NAD83
 Soil Map Unit Name: MdB, Mardin gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR25
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.460848 Long: -74.328918 Datum: NAD83
 Soil Map Unit Name: MdB, Mardin gravelly silt loam, 3 to 8 percent NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.15.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR26
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.461073 Long: -74.328475 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.14.22

Applicant/Owner: _____ State: NY Sampling Point: B-SR27

Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____

Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4604 Long: -74.3299 Datum: NAD83

Soil Map Unit Name: UF, Udifluvents-Fluvaquents complex, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)

Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

SOIL

Sampling Point: B-SR30

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-102								Fill; mixed brown gray grCL
102-120	2.5Y 2.5/1	100					Loamy/Clayey	common pebbles few fine roots
120-132	2.5Y 2.5/1	100					Loamy/Clayey	common pebbles
132-144	2.5Y 3/1	80	2.5Y 4/4	20	C	M	Loamy/Clayey	common pebbles, few smooth gravel
144-163	2.5Y 3/1	87	10YR 4/6	5	C	M	Loamy/Clayey	
			N 4/	8	D	M		
163-180								Pulvarized rock
180-204	2.5Y 4/3	100					Loamy/Clayey	
204-240	N 4/	95	2.5Y 4/4	5	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: bedrock
 Depth (inches): 163-180

Hydric Soil Present? Yes No

Remarks:

Coarse loam texture (102-120") Coarse clay loam (120-144") Clay texture (144-163") & (204-240") Clay loam texture (180-204").

SOIL

Sampling Point: B-SR31

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60	2.5Y 4/3						Loamy/Clayey	Fill; c gravel and cobble, mixed color and texture
60-120								Fill; mixed brown, yellowish brown, gravel & cobble
120-180								No recovery (rock)
180-181	2.5Y 3/1	100						Fibrous roots
181-184	2.5Y 3/1	100					Loamy/Clayey	Few roots
184-190	10YR 4/1	95	2.5Y 5/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
190-209	2.5Y 4/3	40	10YR 6/1	30	D	M	Loamy/Clayey	common pebbles
			10YR 5/6	30	C	M		Prominent redox concentrations
209-223	N 3/	80	10YR 6/1	15	D	M	Loamy/Clayey	few pebbles

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:
 Meets Depleted Matrix (F3) below fill material (180-223"). Silt clay loam texture (181-184") Silty clay texture (184-209") Clay loam texture (209-223").

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 3.14.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR28
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): constructed terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4607 Long: -74.3305 Datum: NAD83
 Soil Map Unit Name: UF, Udifluvents-Fluvaquents complex, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

SOIL

Sampling Point: B-SR29

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-96								Fill; c gravel/cobble mixed. LSR = 3.5
96-120								Gravel & cobble size rock
120-180								Fill; mixed brown fill w/ gravel, cobble and pebble
180-192	2.5Y 2.5/1	95	10YR 5/6	5	C	M	Loamy/Clayey	common roots
192-210	2.5Y 2.5/1	100					Sandy	coarse sand, gravel and cobble
								2.5Y 2/1 coated grains - smooth and angular
210-240	N 4/	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Marl (F10) (LRR K, L)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> x </u>
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Remarks:
 Layer from 180-192" meets Redox Dark Surface (F6). Layer from 192-210" corresponds to substrate of former stream channel. Layer from 210-240 meets the definition of a loamy gleyed matrix. Sandy loam texture (180-192") Coarse sand texture (192-210") Clay loam texture (210-240").

SOIL

Sampling Point: B-SR32

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-60								Fill; mixed grC - gray - common slate
60-66	2.5Y 3/1	100					Loamy/Clayey	Common grass & roots
66-84	2.5Y 4/1	98	7.5YR 4/6	2	C	M	Loamy/Clayey	common gravel
84-102	10YR 4/4	80	2.5Y 3/2	20	D	M	Loamy/Clayey	common pebble, gravel
102-152	2.5Y 4/1						Loamy/Clayey	
152-180	N 5/	50	10YR 4/6	50	C	M	Loamy/Clayey	common pebble, gravel, few cobble at 174"
180-240	N 3/	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)		
<input type="checkbox"/> Stripped Matrix (S6)			
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
Meets Depleted Matrix (F3) below fill material (60-240"). Gravelly clay loam texture (60-102") Coarse clay loam (102-152") Clay loam (152-240").

VEGETATION – Use scientific names of plants.

Sampling Point: B-SR101

	Absolute % Cover	Dominant Species?	Indicator Status																									
Tree Stratum (Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																								
1.	_____	_____	_____																									
2.	_____	_____	_____																									
3.	_____	_____	_____																									
4.	_____	_____	_____																									
5.	_____	_____	_____																									
6.	_____	_____	_____																									
7.	_____	_____	_____																									
			=Total Cover																									
Sapling/Shrub Stratum (Plot size: _____)																												
1.	_____	_____	_____																									
2.	_____	_____	_____																									
3.	_____	_____	_____																									
4.	_____	_____	_____																									
5.	_____	_____	_____																									
6.	_____	_____	_____																									
7.	_____	_____	_____																									
			=Total Cover																									
Herb Stratum (Plot size: _____)				Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="width:25%; text-align:center">Total % Cover of:</td> <td style="width:25%; text-align:center">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align:center"><u>20</u></td> <td style="text-align:center">x 1 = <u>20</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center"><u>0</u></td> <td style="text-align:center">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center"><u>38</u></td> <td style="text-align:center">x 3 = <u>114</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center"><u>40</u></td> <td style="text-align:center">x 4 = <u>160</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center"><u>0</u></td> <td style="text-align:center">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center"><u>98</u> (A)</td> <td style="text-align:center"><u>294</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align:center">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table> Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		Total % Cover of:	Multiply by:	OBL species	<u>20</u>	x 1 = <u>20</u>	FACW species	<u>0</u>	x 2 = <u>0</u>	FAC species	<u>38</u>	x 3 = <u>114</u>	FACU species	<u>40</u>	x 4 = <u>160</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals:	<u>98</u> (A)	<u>294</u> (B)	Prevalence Index = B/A = <u>3.00</u>		
	Total % Cover of:	Multiply by:																										
OBL species	<u>20</u>	x 1 = <u>20</u>																										
FACW species	<u>0</u>	x 2 = <u>0</u>																										
FAC species	<u>38</u>	x 3 = <u>114</u>																										
FACU species	<u>40</u>	x 4 = <u>160</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals:	<u>98</u> (A)	<u>294</u> (B)																										
Prevalence Index = B/A = <u>3.00</u>																												
1.	<u><i>Echinochloa crus-galli</i></u>	30	Yes		FAC																							
2.	<u><i>Rorippa palustris</i></u>	20	Yes		OBL																							
3.	<u><i>Dactylis glomerata</i></u>	20	Yes		FACU																							
4.	<u><i>Setaria pumila</i></u>	5	No	FAC																								
5.	<u><i>Plantago lanceolata</i></u>	5	No	FACU																								
6.	<u><i>Taraxacum officinale</i></u>	5	No	FACU																								
7.	<u><i>Lolium perenne</i></u>	5	No	FACU																								
8.	<u><i>Schedonorus pratensis</i></u>	5	No	FACU																								
9.	<u><i>Rumex crispus</i></u>	3	No	FAC																								
10.	_____	_____	_____	_____																								
11.	_____	_____	_____	_____																								
12.	_____	_____	_____	_____																								
			98	=Total Cover																								
Woody Vine Stratum (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																								
1.	_____	_____	_____																									
2.	_____	_____	_____																									
3.	_____	_____	_____																									
4.	_____	_____	_____																									
			_____	=Total Cover																								

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 9.26.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR106
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46394 Long: -74.32944 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes <u>x</u> No _____ Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>x</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by mass grading; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

SOIL

Sampling Point: B-SR108

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	2.5Y 4/2	100					Loamy/Clayey	
5-12	2.5Y 5/2	85	10YR 4/6	5	C	M	Loamy/Clayey	
			2.5Y 6/3	5	D	M		
			2.5Y 5/1	5	D	M		
12-20	2.5Y 5/1	90	10YR 4/6	10	C	M	Loamy/Clayey	platy structure
20-28	5GY 5/1	70	10YR 4/6	30	C	M		Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			
<input type="checkbox"/> Sandy Redox (S5)			
<input type="checkbox"/> Stripped Matrix (S6)			
<input type="checkbox"/> Dark Surface (S7)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <u>X</u> No _____
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Remarks:
 Loam texture (0-5") Clay loam texture (5-20")

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 9.26.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR109
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.4628 Long: -74.3279 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by mass grading; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 9.26.22
 Applicant/Owner: _____ State: NY Sampling Point: B-SR112
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46246 Long: -74.32895 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mark Ford Training Center City/County: Orange County Sampling Date: 9.26.22

Applicant/Owner: _____ State: NY Sampling Point: B-SR113

Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____

Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.46278 Long: -74.32933 Datum: NAD83

Soil Map Unit Name: MdB, Mardin gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

Are Vegetation x, Soil x, or Hydrology x significantly disturbed? Are "Normal Circumstances" present? Yes No x

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>x</u> Hydric Soil Present? Yes <u> </u> No <u>x</u> Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): _____ Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): _____ Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>x</u>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Normal hydrologic functions altered by deposition of fill; water table below 12 inches depth. Inferences about previous hydrology made from similarly situated wetland reference sites.

H3. Reference Areas

H3a. Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Equine Site City/County: Orange County Sampling Date: 9.26.22
 Applicant/Owner: _____ State: NY Sampling Point: RWEU2
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Slope Slope (%): 2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.465653 Long: -74.3203109 Datum: NAD83
 Soil Map Unit Name: AdB, Allard silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Upland reference	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>x</u>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: RWEU2

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Herb Stratum (Plot size: _____)				
1.	<u>Cyperus strigosus</u>	15	Yes	FACW
2.	<u>Trifolium pratense</u>	15	Yes	FACU
3.	<u>Juncus tenuis</u>	10	Yes	FAC
4.	<u>Poa pratensis</u>	10	Yes	FACU
5.	<u>Agrostis capillaris</u>	10	Yes	FAC
6.	<u>Juncus effusus</u>	5	No	OBL
7.	<u>Taraxacum officinale</u>	5	No	FACU
8.	<u>Schedonorus pratensis</u>	5	No	FACU
9.	<u>Lolium perenne</u>	5	No	FACU
10.	<u>Symphyotrichum lateriflorum</u>	5	No	FAC
11.	<u>Carex tribuloides</u>	5	No	FACW
12.	<u>Dactylis glomerata</u>	5	No	FACU
	95 =Total Cover			
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>5</u>	x 1 = <u>5</u>
FACW species <u>20</u>	x 2 = <u>40</u>
FAC species <u>25</u>	x 3 = <u>75</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>95</u> (A)	<u>300</u> (B)
Prevalence Index = B/A = <u>3.16</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Ruderal species, Fairly wet in regards to plants. Additional herbaceous startum: Phleum pratense 3% (FACU)

VEGETATION – Use scientific names of plants.

Sampling Point: RWB

	Absolute % Cover	Dominant Species?	Indicator Status																
Tree Stratum (Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 5 </u> (A) Total Number of Dominant Species Across All Strata: <u> 6 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 83.3% </u> (A/B)															
1.	<u> 20 </u>	Yes	FACW																
2.	<u> 15 </u>	Yes	FAC																
3.	<u> 5 </u>	No	OBL																
4.	<u> 5 </u>	No	FAC																
5.	_____	_____	_____																
6.	_____	_____	_____																
7.	_____	_____	_____																
			<u> 45 </u> =Total Cover																
Sapling/Shrub Stratum (Plot size: _____)																			
1.	<u> 10 </u>	Yes	FACU																
2.	<u> 5 </u>	Yes	FACW																
3.	_____	_____	_____																
4.	_____	_____	_____																
5.	_____	_____	_____																
6.	_____	_____	_____																
7.	_____	_____	_____																
			<u> 15 </u> =Total Cover																
Herb Stratum (Plot size: _____)																			
1.	<u> 10 </u>	Yes	OBL																
2.	<u> 10 </u>	Yes	FACW																
3.	<u> 5 </u>	No	OBL																
4.	<u> 3 </u>	No	OBL																
5.	<u> 3 </u>	No	OBL																
6.	<u> 2 </u>	No	FACW																
7.	<u> 2 </u>	No	OBL																
8.	_____	_____	_____																
9.	_____	_____	_____																
10.	_____	_____	_____																
11.	_____	_____	_____																
12.	_____	_____	_____																
			<u> 37 </u> =Total Cover																
Woody Vine Stratum (Plot size: _____)																			
1.	_____	_____	_____																
2.	_____	_____	_____																
3.	_____	_____	_____																
4.	_____	_____	_____																
			_____ =Total Cover																
Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%; text-align:center;">Total % Cover of:</th> <th style="width:50%; text-align:center;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u> 30 </u></td> <td>x 1 = <u> 30 </u></td> </tr> <tr> <td>FACW species <u> 37 </u></td> <td>x 2 = <u> 74 </u></td> </tr> <tr> <td>FAC species <u> 20 </u></td> <td>x 3 = <u> 60 </u></td> </tr> <tr> <td>FACU species <u> 10 </u></td> <td>x 4 = <u> 40 </u></td> </tr> <tr> <td>UPL species <u> 0 </u></td> <td>x 5 = <u> 0 </u></td> </tr> <tr> <td>Column Totals: <u> 97 </u> (A)</td> <td><u> 204 </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u> 2.10 </u></td> </tr> </tbody> </table>				Total % Cover of:	Multiply by:	OBL species <u> 30 </u>	x 1 = <u> 30 </u>	FACW species <u> 37 </u>	x 2 = <u> 74 </u>	FAC species <u> 20 </u>	x 3 = <u> 60 </u>	FACU species <u> 10 </u>	x 4 = <u> 40 </u>	UPL species <u> 0 </u>	x 5 = <u> 0 </u>	Column Totals: <u> 97 </u> (A)	<u> 204 </u> (B)	Prevalence Index = B/A = <u> 2.10 </u>	
Total % Cover of:	Multiply by:																		
OBL species <u> 30 </u>	x 1 = <u> 30 </u>																		
FACW species <u> 37 </u>	x 2 = <u> 74 </u>																		
FAC species <u> 20 </u>	x 3 = <u> 60 </u>																		
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UPL species <u> 0 </u>	x 5 = <u> 0 </u>																		
Column Totals: <u> 97 </u> (A)	<u> 204 </u> (B)																		
Prevalence Index = B/A = <u> 2.10 </u>																			
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)																			
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																			
Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																			
Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																			

Remarks: (Include photo numbers here or on a separate sheet.)

VEGETATION – Use scientific names of plants.

Sampling Point: RWEU

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)				<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>9</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">Total % Cover of:</td> <td style="width:50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>2</u></td> <td>x 1 = <u>2</u></td> </tr> <tr> <td>FACW species <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC species <u>76</u></td> <td>x 3 = <u>228</u></td> </tr> <tr> <td>FACU species <u>34</u></td> <td>x 4 = <u>136</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>182</u> (A)</td> <td><u>506</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.78</u></td> </tr> </table> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u> </u> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input checked="" type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0¹</p> <p><u> </u> 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p><u> </u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Definitions of Vegetation Strata:</p> <p>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vines – All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u></p>	Total % Cover of:	Multiply by:	OBL species <u>2</u>	x 1 = <u>2</u>	FACW species <u>70</u>	x 2 = <u>140</u>	FAC species <u>76</u>	x 3 = <u>228</u>	FACU species <u>34</u>	x 4 = <u>136</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>182</u> (A)	<u>506</u> (B)	Prevalence Index = B/A = <u>2.78</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>2</u>	x 1 = <u>2</u>																			
FACW species <u>70</u>	x 2 = <u>140</u>																			
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Column Totals: <u>182</u> (A)	<u>506</u> (B)																			
Prevalence Index = B/A = <u>2.78</u>																				
1. <u>Quercus palustris</u>	35	Yes	FACW																	
2. <u>Acer rubrum</u>	30	Yes	FAC																	
3. <u>Fraxinus americana</u>	10	No	FACU																	
4. <u>Ulmus rubra</u>	5	No	FAC																	
5. <u>Acer saccharinum</u>	5	No	FACW																	
6. _____																				
7. _____																				
	85	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Rhamnus cathartica</u>	20	Yes	FAC																	
2. <u>Rosa multiflora</u>	10	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	30	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Leersia virginica</u>	25	Yes	FACW																	
2. <u>Juncus tenuis</u>	10	Yes	FAC																	
3. <u>Potentilla simplex</u>	10	Yes	FACU																	
4. <u>Cinna arundinacea</u>	5	No	FACW																	
5. <u>Persicaria virginiana</u>	5	No	FAC																	
6. <u>Juncus effusus</u>	2	No	OBL																	
7. <u>Solidago canadensis</u>	2	No	FACU																	
8. <u>Euthamia graminifolia</u>	1	No	FAC																	
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	60	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u>Toxicodendron radicans</u>	5	Yes	FAC																	
2. <u>Vitis aestivalis</u>	2	Yes	FACU																	
3. _____																				
4. _____																				
	7	=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

VEGETATION – Use scientific names of plants.

Sampling Point: RWEW

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)																				
1. <u>Quercus palustris</u>	25	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																
2. <u>Acer rubrum</u>	15	Yes	FAC																	
3. <u>Ulmus rubra</u>	10	No	FAC																	
4. <u>Rhamnus cathartica</u>	10	No	FAC																	
5. _____																				
6. _____																				
7. _____																				
	60	=Total Cover		Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>7</u></td> <td>x 1 = <u>7</u></td> </tr> <tr> <td>FACW species <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC species <u>55</u></td> <td>x 3 = <u>165</u></td> </tr> <tr> <td>FACU species <u>14</u></td> <td>x 4 = <u>56</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>146</u> (A)</td> <td><u>368</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.52</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>7</u>	x 1 = <u>7</u>	FACW species <u>70</u>	x 2 = <u>140</u>	FAC species <u>55</u>	x 3 = <u>165</u>	FACU species <u>14</u>	x 4 = <u>56</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>146</u> (A)	<u>368</u> (B)	Prevalence Index = B/A = <u>2.52</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>7</u>	x 1 = <u>7</u>																			
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UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>146</u> (A)	<u>368</u> (B)																			
Prevalence Index = B/A = <u>2.52</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Rosa multiflora</u>	10	Yes	FACU	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	10	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Leersia virginica</u>	45	Yes	FACW	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Persicaria virginiana</u>	5	No	FAC																	
3. <u>Agrostis capillaris</u>	5	No	FAC																	
4. <u>Penstemon digitalis</u>	5	No	FAC																	
5. <u>Scutellaria lateriflora</u>	3	No	OBL																	
6. <u>Juncus tenuis</u>	3	No	FAC																	
7. <u>Symphytotrichum lateriflorum</u>	2	No	FAC																	
8. <u>Solidago canadensis</u>	2	No	FACU																	
9. <u>Juncus effusus</u>	2	No	OBL																	
10. <u>Mimulus ringens</u>	2	No	OBL																	
11. <u>Potentilla simplex</u>	2	No	FACU																	
12. _____																				
	76	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
				=Total Cover																

Remarks: (Include photo numbers here or on a separate sheet.)

VEGETATION – Use scientific names of plants.

Sampling Point: RWG

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)																				
1. <u>Carya ovata</u>	20	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 5 </u> (A) Total Number of Dominant Species Across All Strata: <u> 8 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 62.5% </u> (A/B)																
2. <u>Quercus palustris</u>	15	Yes	FACW																	
3. <u>Acer rubrum</u>	10	Yes	FAC																	
4. <u>Ulmus rubra</u>	5	No	FAC																	
5. _____																				
6. _____																				
7. _____																				
	50	=Total Cover		Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%; text-align:center;">Total % Cover of:</th> <th style="width:50%; text-align:center;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u> 10 </u></td> <td>x 1 = <u> 10 </u></td> </tr> <tr> <td>FACW species <u> 32 </u></td> <td>x 2 = <u> 64 </u></td> </tr> <tr> <td>FAC species <u> 58 </u></td> <td>x 3 = <u> 174 </u></td> </tr> <tr> <td>FACU species <u> 30 </u></td> <td>x 4 = <u> 120 </u></td> </tr> <tr> <td>UPL species <u> 5 </u></td> <td>x 5 = <u> 25 </u></td> </tr> <tr> <td>Column Totals: <u> 135 </u> (A)</td> <td><u> 393 </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u> 2.91 </u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u> 10 </u>	x 1 = <u> 10 </u>	FACW species <u> 32 </u>	x 2 = <u> 64 </u>	FAC species <u> 58 </u>	x 3 = <u> 174 </u>	FACU species <u> 30 </u>	x 4 = <u> 120 </u>	UPL species <u> 5 </u>	x 5 = <u> 25 </u>	Column Totals: <u> 135 </u> (A)	<u> 393 </u> (B)	Prevalence Index = B/A = <u> 2.91 </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> 10 </u>	x 1 = <u> 10 </u>																			
FACW species <u> 32 </u>	x 2 = <u> 64 </u>																			
FAC species <u> 58 </u>	x 3 = <u> 174 </u>																			
FACU species <u> 30 </u>	x 4 = <u> 120 </u>																			
UPL species <u> 5 </u>	x 5 = <u> 25 </u>																			
Column Totals: <u> 135 </u> (A)	<u> 393 </u> (B)																			
Prevalence Index = B/A = <u> 2.91 </u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Rosa multiflora</u>	5	Yes	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	5	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Persicaria virginiana</u>	30	Yes	FAC	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Persicaria longiseta</u>	10	Yes	FAC																	
3. <u>Boehmeria cylindrica</u>	10	Yes	OBL																	
4. <u>Cinna arundinacea</u>	5	No	FACW																	
5. <u>Bidens frondosa</u>	5	No	FACW																	
6. <u>Artemisia vulgaris</u>	5	No	UPL																	
7. <u>Leersia virginica</u>	5	No	FACW																	
8. <u>Solidago rugosa</u>	3	No	FAC																	
9. <u>Onoclea sensibilis</u>	2	No	FACW																	
10. _____																				
11. _____																				
12. _____																				
	75	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u>Parthenocissus quinquefolia</u>	5	Yes	FACU	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	5	=Total Cover																		
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Hydrophytic Vegetation Present?</td> <td style="width:20%; text-align:center;">Yes <u> X </u></td> <td style="width:20%; text-align:center;">No <u> </u></td> </tr> </table>					Hydrophytic Vegetation Present?	Yes <u> X </u>	No <u> </u>													
Hydrophytic Vegetation Present?	Yes <u> X </u>	No <u> </u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 21-102 Ford Stables City/County: Orange County Sampling Date: 9.27.22
 Applicant/Owner: _____ State: NY Sampling Point: RWS1
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): Concave Slope (%): 0
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.466270 Long: -74.330792 Datum: NAD83
 Soil Map Unit Name: ErB, Erie gravelly silt loam, 3 to 8 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Reference Area Rwell Smiley 01	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 During previous inspection in March 2022 the water table was at the surface; water table logger failed

Remarks:
 Saturation and watertable present in March 2022

VEGETATION – Use scientific names of plants.

Sampling Point: RWS1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1.	<u>Dipsacus fullonum</u>	30	Yes	FACU
2.	<u>Symphyotrichum lateriflorum</u>	25	Yes	FAC
3.	<u>Solidago canadensis</u>	10	No	FACU
4.	<u>Typha latifolia</u>	10	No	OBL
5.	<u>Symphyotrichum novae-angliae</u>	5	No	FACW
6.	<u>Euthamia graminifolia</u>	3	No	FAC
7.	<u>Mimulus ringens</u>	3	No	OBL
8.	<u>Lythrum salicaria</u>	3	No	OBL
9.	<u>Asclepias incarnata</u>	1	No	OBL
10.	<u>Epilobium coloratum</u>	1	No	OBL
11.	<u>Juncus effusus</u>	1	No	OBL
12.	_____	_____	_____	_____
	92	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	_____	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>19</u>	x 1 = <u>19</u>
FACW species <u>5</u>	x 2 = <u>10</u>
FAC species <u>28</u>	x 3 = <u>84</u>
FACU species <u>40</u>	x 4 = <u>160</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>92</u> (A)	<u>273</u> (B)
Prevalence Index = B/A = <u>2.97</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)
 Strictly herbaceous community, No tree, shrub, or vine cover. Mostly native

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 21-102 Ford Stables City/County: Orange County Sampling Date: 9.27.22
 Applicant/Owner: _____ State: NY Sampling Point: RWS2
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope (%): 2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.464042 Long: -74.327256 Datum: NAD83
 Soil Map Unit Name: Ab, Alden silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Reference Area RWell Smiley 02	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>6</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: RWS2

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)				<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>6</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Total % Cover of:</th> <th style="width:50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>32</u></td> <td>x 1 = <u>32</u></td> </tr> <tr> <td>FACW species <u>43</u></td> <td>x 2 = <u>86</u></td> </tr> <tr> <td>FAC species <u>80</u></td> <td>x 3 = <u>240</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>185</u> (A)</td> <td><u>478</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.58</u></td> </tr> </tbody> </table> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input checked="" type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0¹</p> <p><input type="checkbox"/> 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Definitions of Vegetation Strata:</p> <p>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vines – All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:	Multiply by:	OBL species <u>32</u>	x 1 = <u>32</u>	FACW species <u>43</u>	x 2 = <u>86</u>	FAC species <u>80</u>	x 3 = <u>240</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>185</u> (A)	<u>478</u> (B)	Prevalence Index = B/A = <u>2.58</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>32</u>	x 1 = <u>32</u>																			
FACW species <u>43</u>	x 2 = <u>86</u>																			
FAC species <u>80</u>	x 3 = <u>240</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>185</u> (A)	<u>478</u> (B)																			
Prevalence Index = B/A = <u>2.58</u>																				
1. <u>Acer rubrum</u>	<u>35</u>	Yes	FAC																	
2. <u>Robinia pseudoacacia</u>	<u>10</u>	No	FACU																	
3. <u>Morus rubra</u>	<u>5</u>	No	FACU																	
4. <u>Ulmus rubra</u>	<u>5</u>	No	FAC																	
5. _____																				
6. _____																				
7. _____																				
	<u>55</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Cornus racemosa</u>	<u>20</u>	Yes	FAC																	
2. <u>Rhamnus cathartica</u>	<u>10</u>	Yes	FAC																	
3. <u>Sambucus</u>	<u>5</u>	No																		
4. <u>Lonicera tatarica</u>	<u>5</u>	No	FACU																	
5. <u>Alnus incana</u>	<u>5</u>	No	FACW																	
6. _____																				
7. _____																				
	<u>45</u>	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Impatiens capensis</u>	<u>30</u>	Yes	FACW																	
2. <u>Symplocarpus foetidus</u>	<u>25</u>	Yes	OBL																	
3. <u>Persicaria longiseta</u>	<u>10</u>	No	FAC																	
4. <u>Alliaria petiolata</u>	<u>5</u>	No	FACU																	
5. <u>Boehmeria cylindrica</u>	<u>5</u>	No	OBL																	
6. <u>Onoclea sensibilis</u>	<u>5</u>	No	FACW																	
7. <u>Osmunda</u>	<u>5</u>	No																		
8. <u>Phragmites australis</u>	<u>3</u>	No	FACW																	
9. <u>Lythrum salicaria</u>	<u>2</u>	No	OBL																	
10. _____																				
11. _____																				
12. _____																				
	<u>90</u>	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u>Parthenocissus quinquefolia</u>	<u>5</u>	Yes	FACU																	
2. _____																				
3. _____																				
4. _____																				
	<u>5</u>	=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

VEGETATION – Use scientific names of plants.

Sampling Point: RWSP

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: _____)				<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u> 10 </u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u> 11 </u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 90.9% </u> (A/B)</p> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%; text-align:center;">Total % Cover of:</th> <th style="width:50%; text-align:center;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u> 12 </u></td> <td>x 1 = <u> 12 </u></td> </tr> <tr> <td>FACW species <u> 87 </u></td> <td>x 2 = <u> 174 </u></td> </tr> <tr> <td>FAC species <u> 41 </u></td> <td>x 3 = <u> 123 </u></td> </tr> <tr> <td>FACU species <u> 20 </u></td> <td>x 4 = <u> 80 </u></td> </tr> <tr> <td>UPL species <u> 10 </u></td> <td>x 5 = <u> 50 </u></td> </tr> <tr> <td>Column Totals: <u> 170 </u> (A)</td> <td><u> 439 </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u> 2.58 </u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u> 12 </u>	x 1 = <u> 12 </u>	FACW species <u> 87 </u>	x 2 = <u> 174 </u>	FAC species <u> 41 </u>	x 3 = <u> 123 </u>	FACU species <u> 20 </u>	x 4 = <u> 80 </u>	UPL species <u> 10 </u>	x 5 = <u> 50 </u>	Column Totals: <u> 170 </u> (A)	<u> 439 </u> (B)	Prevalence Index = B/A = <u> 2.58 </u>	
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FAC species <u> 41 </u>	x 3 = <u> 123 </u>																			
FACU species <u> 20 </u>	x 4 = <u> 80 </u>																			
UPL species <u> 10 </u>	x 5 = <u> 50 </u>																			
Column Totals: <u> 170 </u> (A)	<u> 439 </u> (B)																			
Prevalence Index = B/A = <u> 2.58 </u>																				
1. <u> Acer saccharinum </u>	20	Yes	FACW																	
2. <u> Quercus bicolor </u>	15	Yes	FACW																	
3. <u> Acer rubrum </u>	10	No	FAC																	
4. <u> Ulmus rubra </u>	10	No	FAC																	
5. <u> Betula lenta </u>	5	No	FACU																	
6. _____																				
7. _____																				
	60	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u> Carpinus caroliniana </u>	15	Yes	FAC																	
2. <u> Lindera benzoin </u>	10	Yes	FACW																	
3. <u> Vaccinium corymbosum </u>	5	No	FACW																	
4. <u> Rosa multiflora </u>	5	No	FACU																	
5. <u> Berberis thunbergii </u>	5	No	FACU																	
6. <u> Viburnum rafinesqueanum </u>	5	No	UPL																	
7. <u> Fraxinus americana </u>	3	No	FACU																	
	48	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u> Cinna arundinacea </u>	10	Yes	FACW																	
2. <u> Leersia virginica </u>	10	Yes	FACW																	
3. <u> Carex bromoides </u>	10	Yes	FACW																	
4. <u> Glyceria striata </u>	5	Yes	OBL																	
5. <u> Symphyotrichum cordifolium </u>	5	Yes	UPL																	
6. <u> Carex prasina </u>	5	Yes	OBL																	
7. <u> Dryopteris carthusiana </u>	5	Yes	FACW																	
8. <u> Euthamia graminifolia </u>	3	No	FAC																	
9. <u> Persicaria virginiana </u>	3	No	FAC																	
10. <u> Boehmeria cylindrica </u>	2	No	OBL																	
11. <u> Onoclea sensibilis </u>	2	No	FACW																	
12. <u> Galium mollugo </u>	2	No	FACU																	
	62	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u> Muhlenbergia uniflora </u>			OBL																	
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)
 Additional herbaceous stratum: Packera aurea 2% (FACW), Woodsia obtusa 2% (UPL), and Muhlenbergia uniflora 1% (OBL).

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 21-102 Ford Stables City/County: Orange County Sampling Date: 9.27.22
 Applicant/Owner: _____ State: NY Sampling Point: RWS3
 Investigator(s): Wade Nutter, Jared Woolsey, Lane Rivenbark Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): 1
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.462354 Long: -74.336898 Datum: NAD83
 Soil Map Unit Name: ErA, Erie gravelly silt loam, 0 to 3% slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Modified by cattle	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: RWS3

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: _____)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1.	<u><i>Viburnum recognitum</i></u>	15	Yes	FAC
2.	<u><i>Cornus racemosa</i></u>	10	Yes	FAC
3.	<u><i>Rhamnus cathartica</i></u>	10	Yes	FAC
4.	<u><i>Celtis occidentalis</i></u>	3	No	FAC
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	_____	=Total Cover		
Herb Stratum (Plot size: _____)				
1.	<u><i>Agrimonia parviflora</i></u>	10	Yes	FAC
2.	<u><i>Symphyotrichum lateriflorum</i></u>	10	Yes	FAC
3.	<u><i>Symphyotrichum novae-angliae</i></u>	10	Yes	FACW
4.	<u><i>Euthamia graminifolia</i></u>	10	Yes	FAC
5.	<u><i>Carex squarrosa</i></u>	10	Yes	OBL
6.	<u><i>Carex vulpinoidea</i></u>	7	No	OBL
7.	<u><i>Juncus effusus</i></u>	5	No	OBL
8.	<u><i>Lythrum salicaria</i></u>	5	No	OBL
9.	<u><i>Erigeron annuus</i></u>	3	No	FACU
10.	<u><i>Symphyotrichum prenanthoides</i></u>	3	No	FAC
11.	<u><i>Agrostis capillaris</i></u>	3	No	FAC
12.	<u><i>Fragaria virginiana</i></u>	3	No	FACU
	_____	=Total Cover		
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____	=Total Cover		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>8</u> (A)
Total Number of Dominant Species Across All Strata:	<u>8</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100.0%</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>27</u>	x 1 = <u>27</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>74</u>	x 3 = <u>222</u>
FACU species <u>6</u>	x 4 = <u>24</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>117</u> (A)	<u>293</u> (B)
Prevalence Index = B/A = <u>2.50</u>	
Hydrophytic Vegetation Indicators:	
<u> </u> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata:	
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines – All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <u> </u>	

Remarks: (Include photo numbers here or on a separate sheet.)
 Scrub/shrub, no trees or CWD. Additional herbaceous stratum: Vernonia noveboracensis 3% (FACW), Carex tribuloides 3% (FACW), Penstemon digitalis 2% (FAC), and Packera aurea 1% (FACW).

